

SPECIFICATIONS

Intensive Care Ventilator Zisline MV300

Version K0



Intended use: lung ventilation during intensive care with a wide choice of the ventilation modes. Ventilator is for use in hospitals, hospital-type facilities and intra-hospital transportation

Patient types: adult, pediatric, infant

Display: 15", touchscreen, color, viewing angle adjustment

Power: 100 - 250 V, 50/60 Hz, back-up battery for 6 hours

Trigger: flow and pressure

Gas supply: air from the built-in turbine; oxygen from central gas pipeline, cylinder

Data displaying mode: simultaneously up to 3 curves and 1 loop

USB port

Triton Electronic Systems, Ltd.

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ISO 13485
CE 0483

General parameters:

Intended use	Controlled and assisted artificial ventilation of lungs at the patients depending on hardware ventilation in resuscitation units, surgery and intensive care departments of professional medical facilities, and also at transportation within professional medical facilities
Patient types	adult, pediatric, infant
Display	15", touchscreen, color, viewing angle adjustment
Electrical power	Mains 100 - 250 V, 50/60 Hz
Time of full ventilation when powered on internal accumulator at mains power failure	Not less than 6 hours at the average settings of ventilator (breathing minute volume of 10 lpm). Not less than 4 hours at any ventilator settings
Trigger	flow and pressure
Position of flow and pressure sensors	flow and pressure sensors are located inside of the device and protected against water condensation effects and mechanical damage
Gas supply	air from the built-in turbine; oxygen from central gas pipeline, cylinder
Type of drive	Built-in flow generator "turbine". Electric, compressorless. The device is independent from the compressed air sources.
Input oxygen pressure	0.15 - 0.6 MPa (1.5 - 6 bar)
User interface	Control via the touch screen, quick keys (buttons) for parameters, the regulator of the "Encoder" type for the quick parameter changes.
Automatic calculation of start ventilation parameters according to the ideal body weight and patient's age category	Available
Function of saving and viewing of trends of the main monitoring parameters	Available
The duration of trend	240 hours
Log of alarms and events (1000 messages)	Available
Nebulizer	Built-in, pneumatic
Maximum (peak) flow on inspiration	180 lpm
Ability to correct delivered tidal volume according to the conditions: temperature, humidity, pressure	ATP, ATPS, ATPD, BTPS

Ventilation modes:

Mandatory ventilation	volume-controlled	CMV VCV
	pressure-controlled	CMV PCV
Synchronized intermittent mandatory ventilation	volume-controlled with pressure support of spontaneous breaths	SIMV VC
	pressure-controlled with pressure support of spontaneous breaths	SIMV PC
Spontaneous breathing	constant positive airway pressure mode with pressure support	CPAP+PS
	airway pressure release ventilation	APRV
	ventilation at two levels of constant positive pressure with pressure support	BiSTEP + PS
	non-invasive ventilation	NIV
Adaptive ventilation	mode of intellectual adaptive ventilation	iSV
Reserve mode	apnea ventilation	Apnea
Pressure support	pressure support function	PS

Ventilation parameters:

Tidal volume	from 10 to 3 000 ml
Respiratory rate	from 1 to 120 bpm
Inspiratory time	from 0.2 to 10 s
Flow trigger sensitivity	from 0.5 to 20 lpm
Pressure trigger sensitivity	from 0.5 to 20 cmH ₂ O
PEEP	from 0 to 50 cmH ₂ O
Inspiratory pressure	from 0 to 100 cmH ₂ O
Pressure support	from 0 to 80 cmH ₂ O
I:E ratio	from 1:99 to 60:1

Monitoring of ventilation parameters:

Basic monitoring:
Peak inspiratory pressure PIP, pressure of the plateau, mean airway pressure MAP, PEEP, autoPEEP
Minute respiratory volume, minute volume of spontaneous breath
Inspiratory volume, expiratory volume
Tidal volume

Respiratory rate, spontaneous breathing frequency
Resistance R
Compliance C
Dynamic compliance / Resistance Dyn C/R
Inspiratory : expiratory ratio I:E
Inspired volume of oxygen FiO ₂
Leakage
Peak inspiratory flow
Advanced monitoring:
End expiratory pressure
Flow at the end of expiration
Time constant at the inspiration, expiration
Stress index
Index of respiratory effort
The patient's work of breathing, the ventilator's work of breathing
Inspiratory time
Index of fullness a breathing cycle
The index of spontaneous breathing
Resistance to expiration
Resistance of the breathing circuit
Elasticity of breathing airway
Compliance of the breathing circuit
Shallow breathing index

Graphical monitoring:

Simultaneous displaying up to 3 curves and 1 loop at the user's choice
Waveforms: flow-time, pressure-time, volume-time at user's choice
Loops: volume-pressure, flow-volume, flow-pressure

Delivery set

Delivery set includes all necessary accessories to ensure the operability of the device.

No	Delivery set according to specification Zisline MV300, Version K0	Quantity, pcs., included in the price
1	Electronic unit with power cable	1
2	HME filter, adult, disposable	1
3	Breathing bag, 3L	1
4	Arm for breathing circuit	1
5	Fuse 2A	2
6	Membrane	1
7	High pressure oxygen hose	1
8	Filter element (microfilter)	1
9	Dust filter	2
10	Ring	2
11	Nebulizer pneumatic	1
13	Mobile trolley	1
14	User Manual	1

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